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Reviewer: Anne Corrigan

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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: Fri Nov 02 16:26:37 EDT 2007

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Application No: 10556014 Version No: 2.0

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Chapple, Clint
Nair, Ramesh

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<130> PRF-10329

<140> 10556014

<141> 2007-11-02

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SEQUENCE LISTING

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<213> Arabidopsis thaliana

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Ala Thr Ile Ala Glu Gly Asp Lys Glu Asp Val Asp Leu Ala Val Asn

50 55 60

Ala Ala Arg Tyr Ala Phe Asp His Gly Pro Trp Pro Arg Met Thr Gly

65 70 75 80

Phe Glu Arg Ala Lys Leu Ile Asn Lys Phe Ala Asp Leu Ile Glu Glu

85 90 95

Asn Ile Glu Glu Leu Ala Lys Leu Asp Ala Val Asp Gly Gly Lys Leu

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105

110

Phe Gln Leu Gly Lys Tyr Ala Asp Ile Pro Ala Thr Ala Gly His Phe
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Arg Tyr Asn Ala Gly Ala Ala Asp Lys Ile His Gly Glu Thr Leu Lys
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Met Thr Arg Gln Ser Leu Phe Gly Tyr Thr Leu Lys Glu Pro Ile Gly
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Val Val Gly Asn Ile Ile Pro Trp Asn Phe Pro Ser Ile Met Phe Ala
165 170 175

Thr Lys Val Ala Pro Ala Met Ala Ala Gly Cys Thr Met Val Val Lys
180 185 190

Pro Ala Glu Gln Thr Ser Leu Ser Ala Leu Phe Tyr Ala His Leu Ser
195 200 205

Lys Glu Ala Gly Ile Pro Asp Gly Val Leu Asn Ile Val Thr Gly Phe
210 215 220

Gly Ser Thr Ala Gly Ala Ala Ile Ala Ser His Met Asp Val Asp Lys
225 230 235 240

Val Ser Phe Thr Gly Ser Thr Asp Val Gly Arg Lys Ile Met Gln Ala
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Ala Ala Ala Ser Asn Leu Lys Lys Val Ser Leu Glu Leu Gly Gly Lys
260 265 270

Ser Pro Leu Leu Ile Phe Asn Asp Ala Asp Ile Asp Lys Ala Ala Asp
275 280 285

Leu Ala Leu Leu Gly Cys Phe Tyr Asn Lys Gly Glu Ile Cys Val Ala
290 295 300

Ser Ser Arg Val Phe Val Gln Glu Gly Ile Tyr Asp Lys Val Val Glu
305 310 315 320

Lys Leu Val Glu Lys Ala Lys Asp Trp Thr Val Gly Asp Pro Phe Asp
325 330 335

Ser Thr Ala Arg Gln Gly Pro Gln Val Asp Lys Arg Gln Phe Glu Lys
 340 345 350

Ile Leu Ser Tyr Ile Glu His Gly Lys Asn Glu Gly Ala Thr Leu Leu
 355 360 365

Thr Gly Gly Lys Ala Ile Gly Asp Lys Gly Tyr Phe Ile Gln Pro Thr
 370 375 380

Ile Phe Ala Asp Val Thr Glu Asp Met Lys Ile Tyr Gln Asp Glu Ile
 385 390 395 400

Phe Gly Pro Val Met Ser Leu Met Lys Phe Lys Thr Val Glu Glu Gly
 405 410 415

Ile Lys Cys Ala Asn Asn Thr Lys Tyr Gly Leu Ala Ala Gly Ile Leu
 420 425 430

Ser Gln Asp Ile Asp Leu Ile Asn Thr Val Ser Arg Ser Ile Lys Ala
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Gly Ile Ile Trp Val Asn Cys Tyr Phe Gly Phe Asp Leu Asp Cys Pro
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Tyr Gly Gly Tyr Lys Met Ser Gly Asn Cys Arg Glu Ser Gly Met Asp
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Arg Tyr Ser Asn Leu Ala Ala Ala Val Glu Asn Thr Ile Thr Pro Pro
35 40 45

Val Lys Val Glu His Thr Gln Leu Leu Ile Gly Gly Arg Phe Val Asp
50 55 60

Ala Val Ser Gly Lys Thr Phe Pro Thr Leu Asp Pro Arg Asn Gly Glu
65 70 75 80

Val Ile Ala Gln Val Ser Glu Gly Asp Ala Glu Asp Val Asn Arg Ala
85 90 95

Val Ala Ala Ala Arg Lys Ala Phe Asp Glu Gly Pro Trp Pro Lys Met
100 105 110

Thr Ala Tyr Glu Arg Ser Lys Ile Leu Phe Arg Phe Ala Asp Leu Ile
115 120 125

Glu Lys His Asn Asp Glu Ile Ala Ala Leu Glu Thr Trp Asp Asn Gly
130 135 140

Lys Pro Tyr Glu Gln Ser Ala Gln Ile Glu Val Pro Met Leu Ala Arg
145 150 155 160

Val Phe Arg Tyr Tyr Ala Gly Trp Ala Asp Lys Ile His Gly Met Thr
165 170 175

Met Pro Gly Asp Gly Pro His His Val Gln Thr Leu His Glu Pro Ile
180 185 190

Gly Val Ala Gly Gln Ile Ile Pro Trp Asn Phe Pro Leu Leu Met Leu
195 200 205

Ser Trp Lys Leu Gly Pro Ala Leu Ala Cys Gly Asn Thr Val Val Leu
210 215 220

Lys Thr Ala Glu Gln Thr Pro Leu Ser Ala Leu Leu Val Gly Lys Leu
 225 230 235 240

Leu His Glu Ala Gly Leu Pro Asp Gly Val Val Asn Ile Val Ser Gly
 245 250 255

Phe Gly Ala Thr Ala Gly Ala Ala Ile Ala Ser His Met Asp Val Asp
 260 265 270

Lys Val Ala Phe Thr Gly Ser Thr Asp Val Gly Lys Ile Ile Leu Glu
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Leu Ala Ser Lys Ser Asn Leu Lys Ala Val Thr Leu Glu Leu Gly Gly
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Lys Ser Pro Phe Ile Val Cys Glu Asp Ala Asp Val Asp Gln Ala Val
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Glu Leu Ala His Phe Ala Leu Phe Phe Asn Gln Gly Gln Cys Cys Cys
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Ala Gly Ser Arg Thr Phe Val His Glu Arg Val Tyr Asp Glu Phe Val
 340 345 350

Glu Lys Ala Lys Ala Arg Ala Leu Lys Arg Asn Val Gly Asp Pro Phe
 355 360 365

Lys Ser Gly Ile Glu Gln Gly Pro Gln Val Asp Ser Glu Gln Phe Asn
 370 375 380

Lys Ile Leu Lys Tyr Ile Lys His Gly Val Glu Ala Gly Ala Thr Leu
 385 390 395 400

Gln Ala Gly Gly Asp Arg Leu Gly Ser Lys Gly Tyr Tyr Ile Gln Pro
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Thr Val Phe Ser Asp Val Lys Asp Asp Met Leu Ile Ala Thr Asp Glu
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Ile Phe Gly Pro Val Gln Thr Ile Leu Lys Phe Lys Asp Leu Asp Glu
 435 440 445

Val Ile Ala Arg Ala Asn Asn Ser Arg Tyr Gly Leu Ala Ala Gly Val
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Phe Thr Gln Asn Leu Asp Thr Ala His Arg Leu Met Arg Ala Leu Arg
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Val Gly Thr Val Trp Ile Asn Cys Phe Asp Val Leu Asp Ala Ser Ile
 485 490 495

Pro Phe Gly Gly Tyr Lys Met Ser Gly Ile Gly Arg Glu Lys Gly Ile
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